Amendments To the Claims:

Please amend the claims as shown.

1.-24. (cancelled)

25. (currently amended) A system for operating and monitoring a production process, comprising:

a first mechanism for providing process information data_-acquired from automation devices or automation systems and/or diagnostic devices or diagnostic systems and/or further devices;

a device for preprocessing and/or representing the acquired process information data for at least one user of the system, wherein the process information data are used for generating alarms; and

a historian database for archiving the acquired process information data for evaluating and/or representing the archived process information data,

wherein the historian database is a relational database,

wherein the process information data for the device for representing the acquired process information data for a user of the system and for the historian database are simultaneously acquired based upon a single application for the device for representing the acquired process information data and the historian data base, and

wherein the device for representing the acquired process information data for a user of the system is a human machine interface.

26. (previously presented) The system as claimed in claim 25, wherein the system is provided for coupling to the automation devices or, as the case may be, systems and/or diagnostic devices or, as the case may be, systems and/or further devices via a data transmission device.

27. (previously presented) The system as claimed in claim 25, wherein the system further comprises a second mechanism for generating alarms and/or events.

28. (previously presented) The system as claimed in claim 25, wherein the system further comprises at least one interface for communicating with at least one client.

29. (previously presented) The system as claimed in claim 28, wherein the client is provided as a web client for communicating via the Internet and/or an intranet.

30. (previously presented) The system as claimed in claim 29, wherein a browser is provided as the web client.

31. (previously presented) The system as claimed in claim 28, wherein the clients are embodied as SCADA clients of the system for operating and monitoring.

32. (previously presented) The system as claimed in claim 28, wherein the clients are embodied as clients that are independent of the system for operating and monitoring.

33. (previously presented) The system as claimed in claim 32, wherein the independent clients are embodied as historian clients having analyzing and/or statistical and/or graphical functionality for evaluating and/or representing the archived process information data.

34. (previously presented) The system as claimed in claim 32, wherein the functionality of the independent clients is integrated in the-SCADA clients of the system for operating and monitoring.

35. (previously presented) The system as claimed in claim 32, wherein the functionality of the-SCADA clients is integrated in the independent clients.

36. (previously presented) The system as claimed in claim 32, wherein the functionality of the clients is integrated in standard applications.

37. (previously presented) The system as claimed in claim 25, wherein the database is adapted for fast and/or central archiving of the acquired process information data.

38. (cancelled)

39. (previously presented) The system as claimed in claims 37, wherein access to the database is provided by SQL queries via standard interfaces.

40. (previously presented) The system as claimed in claim 25, wherein the process information data archived in the database is provided for accessing by clients communicating with the system.

41. (previously presented) The system as claimed in claim 39, wherein Remoting of the standard interfaces of the database is provided.

42. (previously presented) The system as claimed in claim 25, wherein the system and the clients are provided for bi-directional web communication.

43. (previously presented) The system as claimed in claim 25, wherein the clients are provided for entering specifications and/or setpoint values for controlling the production process.

44. (previously presented) The system as claimed in claim 25, wherein the system for operating and monitoring is provided for managing users of the system and/or for planning process communication and/or a security system.

45. (previously presented) The system as claimed in claim 25, wherein the system for operating and monitoring is of redundant design, with redundancy also existing for independent clients.

46. (previously presented) The system as claimed in claim 25, further comprising at least one multiplexer component for concealing a redundancy and/or a plurality of data servers.

47. (cancelled)

48. (cancelled).